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SOURCE

"The Ironworks of the USSR and the Distribution of Their Products,"
 by N. Yerofeyev, (GMDS Doc No VIT 66-c-12-44/164).

DATA ON CONSUMPTION OF IRON AND STEEL PRODUCTS
IN THE USSR

The following tables were taken from a report prepared by Engr N. Yerofeyev, presumably for the German High Command, and published in Berlin in 1938. According to Yerofeyev, all statistics originated in official Soviet sources.

Some discrepancies will be noted between the totals given for certain columns or entries and the actual totals.

Distribution of the Consumption of Rolled Products

<u>Consumer</u>	<u>1929-1932 Av</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>	<u>1936</u>	<u>Planned For 1937</u>
USSR total (1,000 tons)	4,875	5,111	6,887	9,221	11,837	100%
<u>Individual Shares (%)</u>						
Transportation	11.1	10.9	14.5	13.1	13.3	14.6
Including:						
Railroads	10.9	9.8	13.1	12.4	12.8	14.1
Waterway traffic	0.6	0.5	0.6	0.55	0.9	0.4
Nonferrous metal and gold industries	0.6	1.3	1.0	0.9	0.7	0.9
Ferrous metallurgy	24.2	22.9	23.8	21.4	20.9	21.1

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<u>Consumer</u>	<u>1929- 1932 Av</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>	<u>1936</u>	<u>Planned For 1937</u>
Machine building, metal-working	48.2	49.7	47.1	53.0	51.8	52.1
Including:						
RR rolling stock	7.2	7.2	7.5	9.6	10.5	8.5
Shipbuilding	2.3	1.3	1.9	3.0	2.1	-
Automobiles, tractors	4.1	8.2	7.6	3.1	8.8	7.9
Agricultural machinery	7.2	4.9	3.8	4.6	4.8	5.4
Tools, machine tools	1.2	0.8	0.8	0.7	0.9	0.7
Engines, electrical machine	2.1	2.3	2.0	1.9	1.5	2.1
Heavy machine building	4.7	4.2	4.3	4.8	3.8	3.2
Bridges, iron structures	1.6	1.3	1.4	1.6	0.9	0.9
Nonmetallic industries	7.9	7.2	6.3	5.4	5.4	3.3
Including petroleum industry	0.7	0.8	1.2	0.5	0.8	0.8
Industrial Cooperatives	1.5	0.9	0.7	0.5	0.7	0.7
Other consumers	9.9	7.1	7.0	5.6	7.3	7.3

Consumption of Rolled Products by Railroads (in 1,000 tons)

<u>Type of Product</u>	<u>1929- 1932 Av</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>	<u>1936</u>
Total	940.0	975.8	1,548.7	2,517.4	2,944.3
Including:					
Materials for super-structures	456.6	455.7	758.1	992.2	1,189.4
Including:					
Rails	290.0	317.2	529.9	526.5	832.4
Fish plates	46.8	101.2	201.8	310.7	276.0
Bridges	29.6	19.0	10.5	38.1	54.0
Switching installations	19.2	18.2	15.9	16.9	27.5

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Type of Product	1929- 1932 Av	1933	1934	1935	1936
Other bar and section irons	181.2	210.6	358.3	503.3	568.0
New rolling stock, spare parts	272.6	290.3	404.0	972.6	1,020.2
Including:					
Locomotives	49.6	70.3	90.3	143.6	230.2
RR cars	170.0	175.8	267.4	761.6	660.0
Rolled products for small iron parts	22.8	19.1	28.3	49.3	66.4
USSR production of rolled goods	4,212.0	2,882.0	6,733.0	9,363.0	12,454.0
Share of railroads in total consumption of rolled pro- ducts (%)	19.1	19.1	22.5	27.3	24.5

Consumption of Heavy Metals of All Types, Computed in Quantities of Steel,
for 1936 (in 1,000 tons)

Consumer	A	B	C	D	E	F	G	H	X	Percent
Heavy industry	553	2,016	12	550	85	171	1,086	760	5,234	33.0
Including ferrous metallurgy	386	698	1	48	24	-	-	140	1,297	8.2
Railroads	172	1,425	505*	107	34	64	1,620	96	4,023	25.3
Agricultural machinery	34	145	1	9	1	63	1,429	-	1,672	10.6
Food industry	13	85	38	19	25	24	146	-	330	2.1
Waterways traffic	12	64	-	7	1	9	325	-	415	2.6
Timber industry	5	62	0.06	6	4	14	58	-	149	0.9
Light industry	27	44	0.4	9	4	14	30	-	128	0.8
Production of consumers' goods	60	252	3	1	-	-	-	-	337	2.1
Other consumers	-	-	-	-	-	-	-	-	3,546	22.6
Total									15,834	100.0

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Legend

A - Foundry pig iron
B - Rolled products
C - Processed products
D - Iron pipes
E - Cast-iron pipes
F - Iron fittings
G - Equipment
H - Steel casting and steel for own rolled products
X - Total

*Including bridge girders.

NOTE: Conversion of the total consumption of steel was effected on the basis of the following formula:

$$X = A + (Bxb) + (Cxc) + (Dxd) + E + (Fxf) + (Gxg) + H$$

In this formula the capital letters stand for the tonnage of the products listed in the respective columns, and the small letters represent the following conversion coefficients: b = 1.25, c = 1.30, d = 1.40, f = 1.25, g = 1.25x0.9.

Consumption of Soviet-Made High-Grade Steel in Percentages

<u>Consumer</u>	<u>1928- 1929</u>	<u>1929- 1930</u>	<u>1931</u>	<u>1932</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>	<u>1936</u>
USSR total	100	100	100	100	100	100	100	100
Machine building	84.0	85.7	87.0	85.6	91.2	86.0	90.0	88.2
Including:								
Automobiles, tractors	-	21.5	26.3	31.2	39.5	37.1	35.5	33.9
Tools, machine tools	-	18.6	10.0	5.7	4.0	3.9	3.9	4.0
Engines, motors	-	10.0	6.7	5.1	4.6	3.6	3.3	2.8
Roller bearings	-	-	-	-	2.6	3.7	2.8	3.8
Metalworking industry	-	-	-	-	-	5.6	7.0	6.6
Agricultural machinery	-	3.3	2.3	1.5	1.8	1.1	1.7	2.0
Other branches of machine building industry (armaments, petroleum and chemical industry, RR rolling stock, etc)	-	32.3	41.7	42.1	38.7	31.0	35.8	34.4

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Consumption of Soviet-Made High-Grade Steel in Absolute Figures
(in 1,000 tons)

<u>Type of Steel</u>	<u>1927- 1928</u>	<u>1932</u>	<u>1935</u>
High-grade steel, total	90.4	682.6	1,671.5
Including:			
Structural steel	25.9	419.0	1,130.9
Including:			
Carbon steel	23.8	319.8	842.9
Alloyed steel	2.1	99.2	288.0
Including ball-bearing steel	-	5.8	49.0
Tool steel	50.2	95.6	153.9
Including:			
Carbon steel	49.2	85.6	129.6
Alloyed steel	1.0	10.0	24.3
Including high-speed steel	0.7	5.5	4.9
Special steel	6.5	41.2	56.7
Including:			
Carbon steel	-	-	1.2
Alloyed steel	6.5	41.2	56.7
Including:			
Magnet and low current magnet steels	-	0.62	0.73
Heat-resisting steel	-	0.2	1.6
Stainless and acidproof steel	-	0.7	3.1
Dynamo steel	6.5	24.9	32.1
Transformer steel	-	9.9	12.0
Rolled steel wire (also bimetallic wire)	3.2	39.5	72.6
Alloyed steel, total (included in the above)	9.6	150.4	371.2

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Consumption of Sheet Metal and Wire
(in 1,000 tons)

<u>Products</u>	<u>1927- 1928</u>	<u>1932</u>	<u>1935</u>	<u>1936</u>	<u>1937</u>
Sheet iron	351	653	1,371	1,941	2,368
Including:					
Ordinary sheet metal	323	514	1,049	1,500	1,794
Including:					
Thin sheet (1-3 mm)	99	172	278	303	469
Ship plate	15	6	40	49	119
Boiler and fire-box plate	17	13	49	66	105
Corrugated sheet metal	2	2	7	8	11
Frame plate	2	4	16	22	49
Universal plate	7	-	20	81	181
High-grade sheet metal	28	139	322	441	574
Including:					
Structural sheet metal	15	95	255	357	} 499
Tool steel plate	7	9	22	39	
Dynamo sheet metal	7	25	32	32	55
Transformer sheet metal	-	10	12	13	21
Rolled wire	254	328	481	591	767
Including rolled steel wire (with bimetal)	3	40	73	103	122
Iron wire	250	289	409	488	645
Commercial wire	248	279	325	394	542
Telegraph wire	2	10	45	52	59
Electrode wire	-	9	39	42	48

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Consumption and Production of Ferrous Metals by the Central and Western Regions
(in 1,000 tons)

<u>Type of Metal</u>	<u>Produced</u>	<u>Consumed</u>	<u>Shortage</u>
Foundry pig iron	434	948	514
Pig iron, total	468	1,752	1,284
Rolled products	1,226	4,035	2,809
Cast-iron pipes	67	140	73

Consumption of Ferrous Metals, Computed Into Quantities of Steel
(in 1,000 tons)

	<u>1928- 1929</u>	<u>1930</u>	<u>1931</u>	<u>1932</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>	<u>1936</u>
Total	6,433	8,455	9,681	9,554	9,714	12,978	15,916	18,867
Including:								
Domestic production*	5,819	7,085	6,998	7,778	8,971	12,614	15,623	19,195
Imports**	648	1,407	2,714	1,806	1,083	535	558	530
Exports**	34	36	30	27	59	170	264	858
Consumption of rolled products	4,030	4,964	5,312	5,193	5,111	6,887	9,221	11,837

- * Produced quantities of steel and foundry pig iron
- ** The weight of the imported and exported metals was converted into quantities of steel by multiplication with the respective coefficients, namely, with 1.25 in the case of rolled products, pipes, small iron parts and machines; in addition, the weight of machines was multiplied by 0.9 and that of electrical products by 0.5 since ferrous metals are not the only metals contained in them.

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